Algorithm:

1. Import time and get\_state
2. Create class for traffic light
3. Define the class
4. Define the red light and pedestrian waiting
5. Define the changes of the traffic light
6. Return the state of the traffic lights
7. Conditions for the lights to change
8. Red to green to amber to red and pedestrian waiting
9. Request crossing if light is red then pedestrians are crossing
10. Get state of the traffic lights and return it
11. If the state is red it will change to green, then amber and red again
12. Define if a pedestrian is waiting and return it
13. define the traffic system
14. Get the state of the lights
15. If light is red and if a pedestrian is waiting to cross then print that a pedestrian is crossing and takes 2 seconds to cross - time can be changed. Otherwise, if state is red then request crossing
16. Main loop the program
17. Try to run the traffic system or interrupt the system by pressing CTRL + C